

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the new mandatory amendment format. Please amend claims 4 and 6 without prejudice.

1 1. (Cancelled)

② 1 2. (Previously Presented) A wireless communication system of claim 4,
2 wherein said first transmission frequency is from a first set comprised of a limited first
3 predetermined number of frequencies and wherein said second transmission frequency is
4 from a second set comprised of a limited second predetermined number of frequencies,
5 whereby said first set of frequencies is different than said second set of frequencies.

1 3. (Original) The wireless communication system of claim 2, wherein said first
2 predetermined number of frequencies is three and said second predetermined number of
3 frequencies is three.

1 4. (Currently Amended) A wireless communication system, comprising:
2 a pattern of cellular radio communication cells;
3 a base station dynamically assigned a first transmission frequency for transmitting
4 to a first cell in said pattern of cells, said first transmission frequency not
5 being assigned to any base station for transmitting to any cell in said
6 pattern of cells adjacent to said first cell; and
7 one or more user stations each assigned a second transmission frequency for
8 transmitting to said base station for the respective first cell, said second

9 transmission frequency not being assigned to any user station in any cell in
10 said pattern of cells adjacent to said first cell;
11 wherein said base and said user stations communicate using time division
12 multiple access.

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1 5. (Previously Presented) The wireless communication system of claim 4,
2 wherein the user stations in said first cell are dynamically assigned said second
3 transmission frequency.

1 6. (Currently Amended) A wireless communication system, comprising:
2 a pattern of cellular radio communication cells;
3 a base station assigned a first transmission frequency for transmitting to a first cell
4 in said pattern of cells, said first transmission frequency not being
5 assigned to any base station for transmitting to any cell in said pattern of
6 cells adjacent to said first cell; and
7 one or more user stations each assigned a second transmission frequency for
8 transmitting to said base station for the respective first cell, said second
9 transmission frequency not being assigned to any user station in any cell in
10 said pattern of cells adjacent to said first cell;
11 wherein said base and user stations communicate using time division multiple
12 access, and transmissions between said base station transmitting to said
13 first cell and the user stations in said first cell are time division duplexed.

1 7-11. Cancelled

1 12. (Original) A wireless communication system, comprising:

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2 a pattern of cells;
3 a base station; and
4 one or more user stations;
5 wherein said base station is assigned a first transmission frequency for
6 transmitting to a first cell in said pattern of cells, said first transmission
7 frequency not being assigned to any base station for transmitting to any
8 cell in said pattern of cells adjacent said first cell;
9 wherein said user stations in said first cell are assigned a second transmission
10 frequency, said second transmission frequency not assigned to any user
11 stations in any cell in said pattern of cells adjacent said first cell;
12 wherein said base station is further assigned a first spread spectrum code for
13 modulating radio communication for said first cell; and
14 wherein said user stations in said first cell are each assigned a second spread
15 spectrum code for modulating radio communication from said first cell.

1 13. (Previously Presented) The wireless communication system of claim 12,
2 wherein said first transmission frequency is from a first set comprised of a limited first
3 predetermined number of frequencies and wherein said second transmission frequency is
4 from a second set comprised of a limited second predetermined number of frequencies.

1 14. (Original) The wireless communication system of claim 13, whereby the
2 frequencies of said first set of frequencies are mutually exclusive of the frequencies of
3 said second set of frequencies.

1 15. (Original) The wireless communication system of claim 13, wherein said first
2 predetermined number of frequencies is three and said second predetermined number of
3 frequencies is three.

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1 16. (Original) The wireless communication system of claim 12, wherein said base
2 station is dynamically assigned said first transmission frequency.

1 17. (Original) The wireless communication system of claim 12, wherein a user
2 station is dynamically assigned said second transmission frequency when it enters said
3 first cell.

1 18. (Original) The wireless communication system of claim 12, wherein each
2 base station servicing said pattern of cells uses said first spread spectrum code for
3 modulating radio communication for said pattern of cells uses said second spread
4 spectrum code for modulating radio communications from said pattern of cells.

1 19. (Previously Presented) The wireless communication system of claim 12,
2 wherein said pattern of cells comprises a repeated pattern of cells consisting essentially of
3 a first class of cells, a second class of cells, and a third class of cells, wherein no member
4 of said first class of cells is adjacent to another member of said first class of cells, no
5 member of said second class of cells is adjacent to another member of said second class
6 of cells, and no member of said third class of cells is adjacent to another member of said
7 third class of cells.

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1 20. (Original) The wireless communication system of claim 12, wherein said first
2 spread spectrum code and said second spread spectrum code comprises a set of codes
3 with minimal cross-correlation attributes.

1 21. (Cancelled)

1 22. (Previously Presented) A multiple user wireless communication system,
2 comprising:
3 a plurality of cells;
4 a base station located in each cell to transmit over a first frequency; and
5 one or more user stations in communication with said base station to transmit over
6 a second frequency different from said first frequency.

7 wherein transmitters in a first cell are assigned a first code for modulating radio
8 communication in said first cell and radio signals used in said first cell are
9 spread across a bandwidth sufficiently wide that receivers in a second cell
10 adjacent to said first cell may distinguish communication which originates
11 in said first cell from communication which originates in said second cell;
12 wherein said first cell using said first code is not adjacent to any other cell using
13 said first code and said base station communicates with said user stations
14 using time division duplexing.

1 23. (Cancelled)

1 24. (Previously Presented) A multiple user wireless communication system,
2 comprising:
3 a plurality of cells;

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4 a base station assigned a first transmission frequency for transmitting to a first cell
5 in said plurality of cells, said first transmission frequency not being
6 assigned to any base station for transmitting to any cell in said plurality of
7 cells adjacent said first cell; and
8 a plurality of user stations in said first cell assigned a second transmission
9 frequency not assigned to any user stations in any cell in said plurality of
10 cells adjacent said first cell;
11 wherein said base station and said user stations in said first cell are assigned one
12 or more distinct codes for modulating radio communication for said first
13 cell; and
14 wherein said base station is assigned a first set of one or more distinct spreading
15 codes for communicating with user stations in said first cell that are not
16 assigned to any base station for communicating in any cell in said plurality
17 of cells adjacent said first cell, and said user stations in said first cell are
18 assigned a second set of one or more distinct spreading codes that are not
19 assigned to any user stations in any cell in said plurality of cells adjacent
20 said first cell.

1 25. (Previously Presented) The wireless communication system of claim 24,
2 wherein said base station communicates with said user stations using time division
3 duplexing.